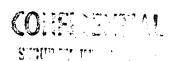
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## \* Office Memorandum United States Government

то	:	Chief, Engineering Division	DATE: 21 November 1951		
FROM	:	Research and Development	Branch 50	)X1	
SUBJEC	CT:	Visit to BuShips - DAQ Conversion	DOG OB REV DATE 24 APR BY 0/83.  ORIG COMP 33 OPI 56 TYPE 07  ORIG CLASS C PAGES 7 REV CLASS C  JUST 22 NEXT REV 2010 AUTHI HR	=	
	ple not a M cat was	ind schedule. Their contract calls fo te systems. It was indicated that del sooner than February or March of 1952 r. Thrift, who is Mr. Kane's superior. ed that their specification was broad	Q equipments was proceeding r the delivery of two com- ivery would probably be made . This was substantiated by These gentlemen also indi- and that much technical liaison to the inadequacy of the	50X1 50X1 50X1	
	They expressed the opinion that an extension of the Navy contract would be possible for CIA but that our delivery would probably be sometime in June of 1952.  Mr. Thrift was familiar with the AN/CRD-2 D.F. equipment and stated that for sky wave use its performance would essentially duplicate that of the SCR-502. However, an electronic goniometer is used in the AN/CRD-2 equipment. Its operation is based on the use of a balanced modulator, and this modulator is evidently a continuing source of trouble in the field. The necessity for tube selection and frequent tube replacement				
	cha tha	Mr. Thrift stated that  rge of this AN/CRD-2 when it was built t time has formed a company  Mr. Thrift suggested the possible inor development job on these three eace the maintenance work that they now in	had been the designer in Since of his own, lity of having do uipments that we need, to re-	50X1 50X1 50X1 50X1	
		h regard for		50X1	

The impression that the writer received from Mr. Thrift was that the AN/CRD-2 used only one antenna array. However, the instruction book for the equipment shows that the use of more than one array may be necessary to cover the complete frequency range. Mr. Thrift also stated that the AN/CRD-2 would require a somewhat better site than does the SCR-502 for equivalent sensitivity and Azimuth accuracy.



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Other clarifying information that was gained is as follows:

- 1. The SCR-502 has a High Band Array and a Low Band Array and a single receiver is used in conjunction with them. The antennas are switched by means of a coaxial switch which presents maintenance difficulties in itself.
  - 2. The Navy equipment is similar to their DAQ equipment.
- 3. Modification of a SCR-291 would be one solution to our problem. As it stands it uses a single Adcock array covering 3.7-10 mc. Modification would consist of adding a second Adcock array to cover 10-30 mc. Operation would be similar to the SCR-502.
- 4. The AN/CRD-2 weighs approximately 3000 lbs. The SCR-502 weighs approximately 10,000 lbs. Both are considered semi-portable.

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